



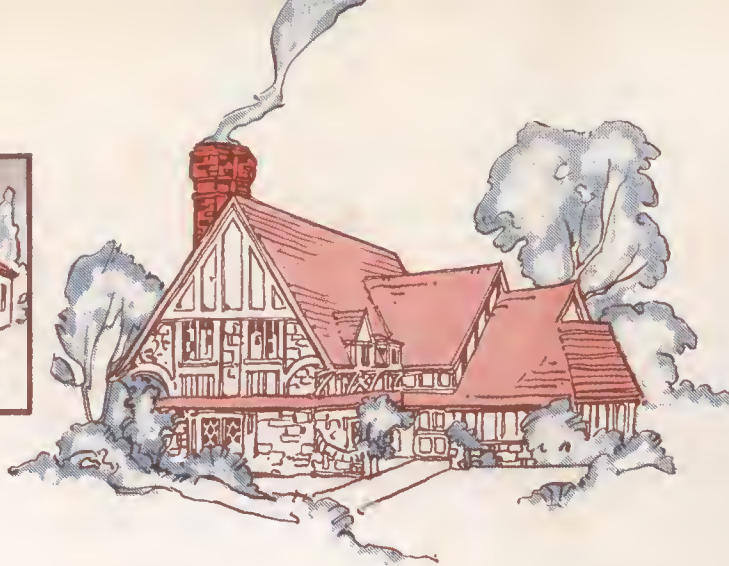
STEEL FRAMING *for* DWELLINGS

The
MODERN
METHOD
OF HOUSE
CONSTRUCTION

STEEL FRAME HOUSE COMPANY
PITTSBURGH PA.

SUBSIDIARY OF MCCLINTIC-MARSHALL CORPORATION

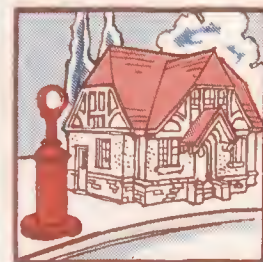
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STEEL FRAME HOUSE CO.



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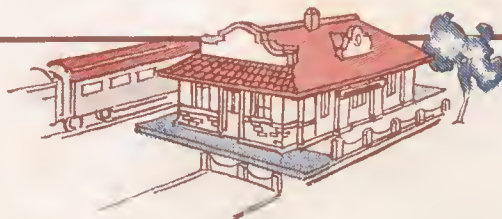


*STRONG ~ DURABLE ~ FIREPROOF
NON-SHRINKABLE*

PATENTS APPLIED FOR

STEEL FRAME HOUSE COMPANY
PITTSBURGH, PA.

Subsidiary of MCCLINTIC-MARSHALL CORPORATION



Steel Framing for Dwellings



SINCE the dawn of civilization it has been the logical custom of man to build permanent homes from the most suitable materials the land afforded. Thus the Asiatics have built from bamboo for centuries because it is plentiful and close at hand. Our early Americans built of rough hewn logs because the materials were to be had in abundance from nearby virgin forests.

But today very few of the virgin forests remain. According to statistics of the United States Forestry Department, this country is using up the timber resources four times as fast as they can be grown.

The High Cost of Labor

Added to the constantly increasing cost of lumber for framing is the higher cost of skilled labor. According to a study of construction made by the United States Department of Labor, 62% or nearly two-thirds of the total cost of a house is labor.

"Steel Framing"

The Logical Answer to the Modern Building Problem

For this reason many builders and architects have realized that a better substitute for the present framing methods must be found. Since this country is the world's greatest steel producer it is but logical for builders and architects to turn to the greater advantages of steel for building frame construction. It is not only the most logical but the strongest and most permanent type of home building construction ever adopted.

"STEEL FRAMING" is not a new untried idea. It has proved its economic practicability in thousands of city buildings. Steel windows and doors have found increasing popularity in residences for several years. Steel floor beams are becoming generally



preferred for permanent, well-built homes. Now, steel framework carries out the ideal construction completely.

The STEEL FRAME HOUSE COMPANY, a subsidiary of one of the largest steel fabricating companies in the world has developed the most practical system of steel house framing ever introduced. This ingenious system makes it possible to produce standard steel frame members at such an economical cost that a steel framed house is within reach of every modern home builder.

For more than a year this Company has made an intensive study of all kinds of building materials and methods and have evolved a satisfactory solution for the economical use of these materials with the "Steel Framing".

Steel Frame Units

All units used by the Steel Frame House Company are composed of standard rolled steel structural sections. The method of punching and assembling provides unlimited construction possibilities and also provides an easy means for attaching the building materials.

Standard Practice of Construction

As may be noted from the illustrations, the STEEL FRAME HOUSE SYSTEM closely follows the standard forms of construction.

Studs

The individual vertical member, or stud, is composed of two angles—both legs of which are punched with holes closely and uniformly spaced. The two angles are tied together by means of the clips at the top and bottom ends and by intermediate tie plates.

This arrangement of the angles leaves a space between the angles which is utilized for the installation of wind bracing and for running wires for the electric lighting system, etc.



Sills, Girts and Plates

The sills, girts and plates consist of two channels assembled with space between—similar to the stud construction—which provides for anchorage, electric wires and other connections.

Floor Beams

The steel frame adapts itself readily to the use of any of the usual types of floor construction.

Roof Framing

The roof is framed with rafters formed either of channels or angles. The connections between the rafters and plate at the eaves and the two rafters at the ridge are made by gusset plates. This construction is adaptable to any pitch of roof.

Partitions

The interior partition members are studs similar to those used in the exterior walls.

Clips and Plates

A standard set of clips and plates has been included in the system which provides a simple means of connecting the various parts together. The rigid adherence to the uniform spacing of holes in both the vertical and horizontal directions of all members of the system is responsible for the simplicity of the connections.

Free Space for Pipes and Wires

This form of construction allows a series of clear spaces between the studs and floor beams for the installation of heating and plumbing pipes, electric wires and other necessary attachments to the building.

All Steel Painted

All of the "Steel Framing" furnished by the STEEL FRAME HOUSE COMPANY is painted with a special anti-corrosive paint, to make it impervious to rust and corrosive elements.



Applications

The application of "Steel Framing" is not limited to residences—but is being used with equal success and economy in the construction of garages, filling stations, small school houses, small apartments, farm buildings and other similar buildings.

For partition work in large hotels, apartments, office buildings, etc., of fireproof, or semi-fireproof construction, "Steel Framing" is also being successfully applied.

Soundproofness

In addition to its salvage value, where partitions must be removed or altered, the soundproofness of "Steel Framing" is a most important factor.

According to tests made by Dr. Paul E. Sabine, (of the Riverbank Laboratories), one of the foremost acoustic authorities in the country, "Steel Frame" partitions, as manufactured by this Company, although weighing less than half as much as other standard types of partitions, are more sound proof.

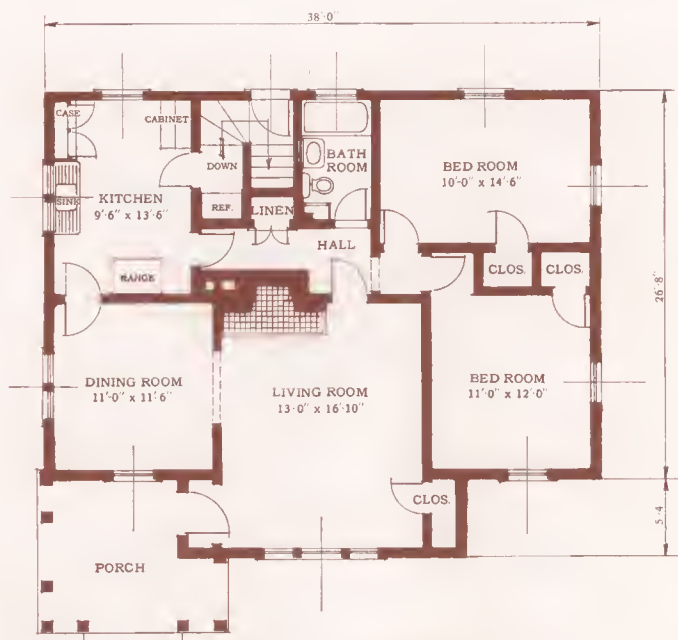
The "Steel Frame" is Economical

The first cost of "Steel Framing" is slightly higher than wood—but the saving in labor and the rapidity with which it can be erected offsets the difference in material cost not to mention the added degree of permanence, rigidity, fire safety and freedom from shrinkage. Considering the fact that two-thirds of the entire cost of a building is labor, the advantages of steel construction are apparent.

In the following pages you will find some representative homes with accompanying diagrams of the "Steel Framing" which clearly illustrate the flexibility of the "Steel Framing" system. "Steel Framing" is adaptable to houses of any architectural style and to all forms of interior arrangement.

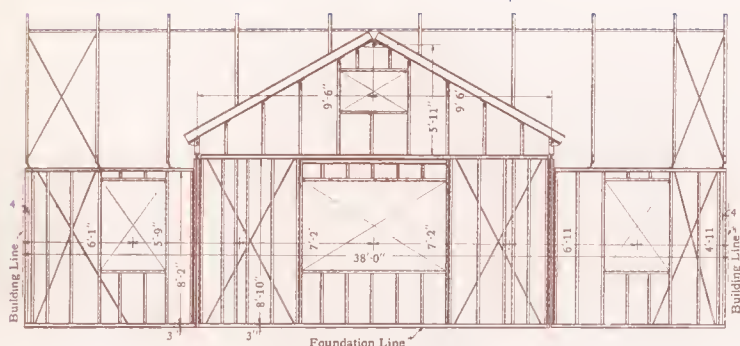


Five Room Bungalow Type Dwelling

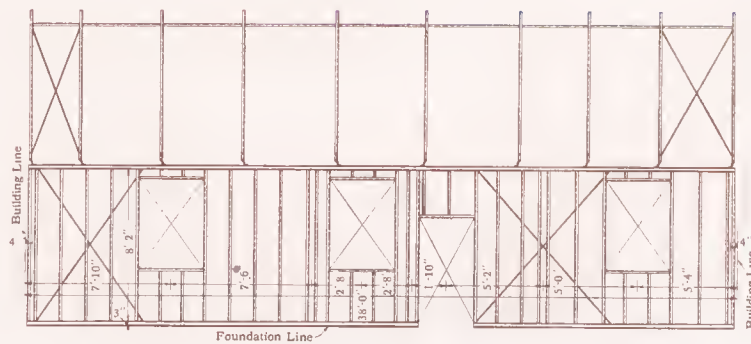


FLOOR PLAN FIVE ROOM BUNGALOW

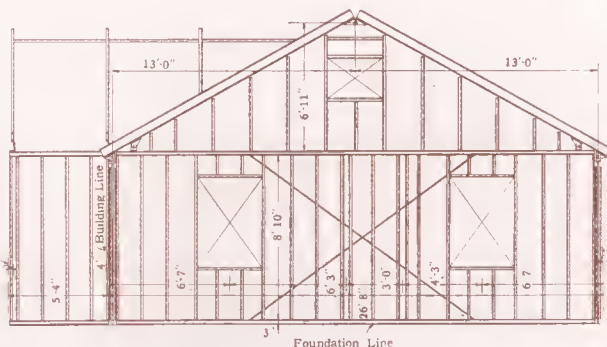
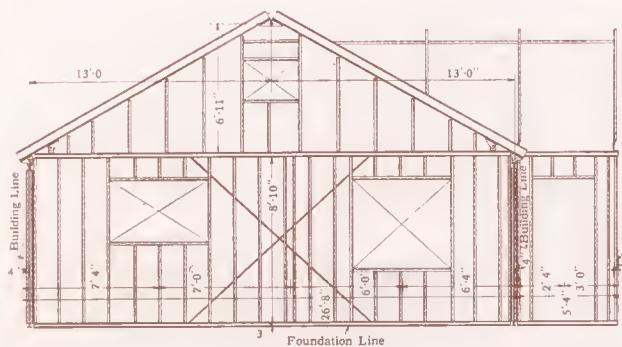
Steel Framing Detail For Bungalow Type Dwelling



FRONT ELEVATION

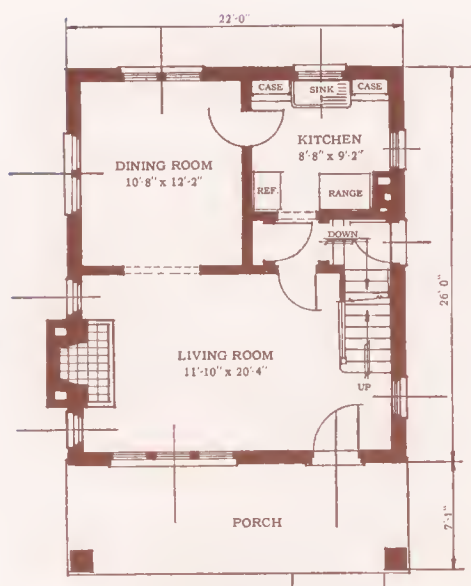


REAR ELEVATION

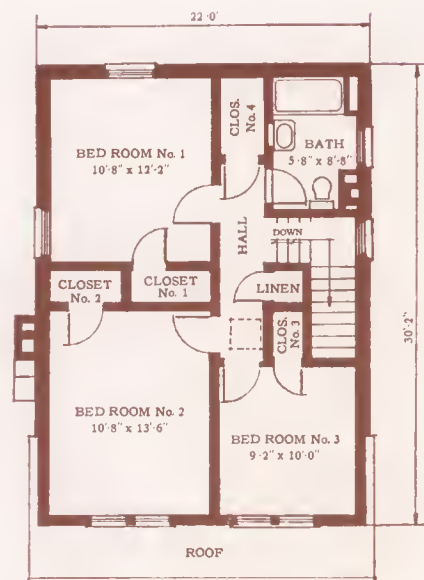


SIDE ELEVATIONS

Typical Six Room Dwelling

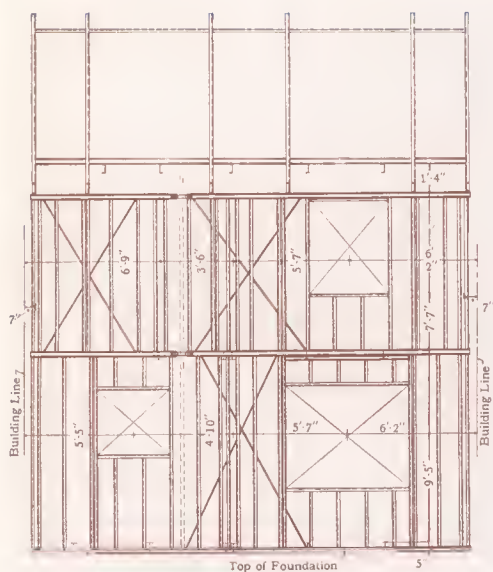


FIRST FLOOR PLAN

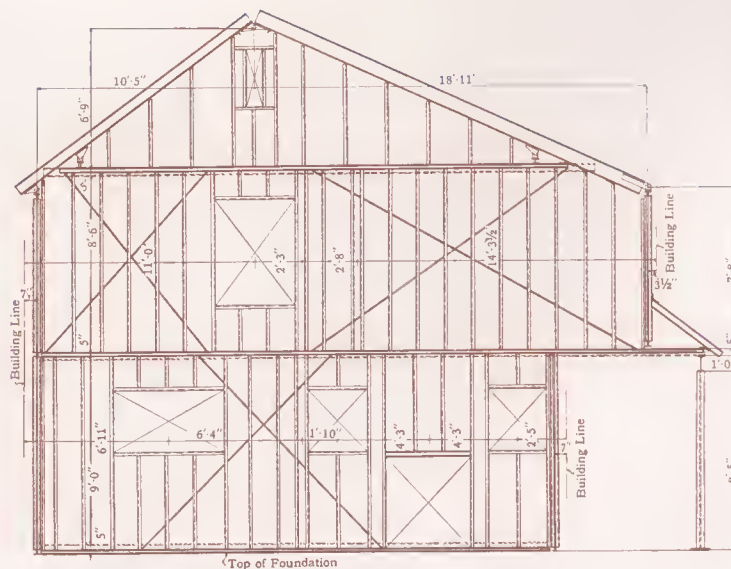


SECOND FLOOR PLAN

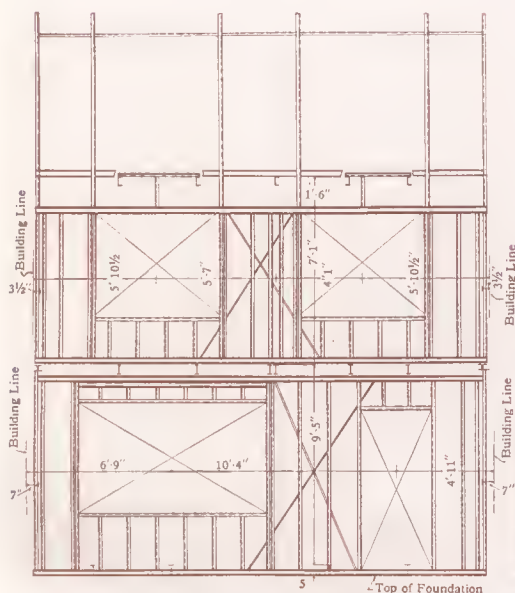
Steel Framing Detail For The Six Room Dwelling



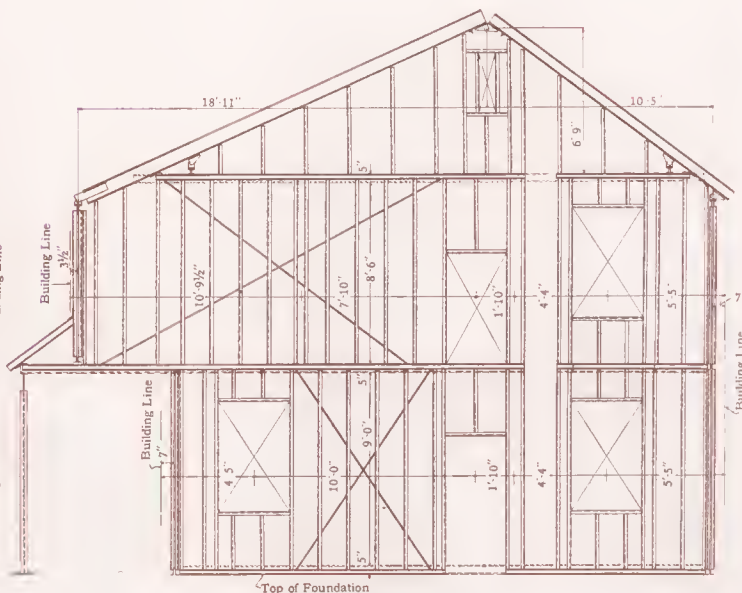
REAR ELEVATION



LEFT SIDE ELEVATION

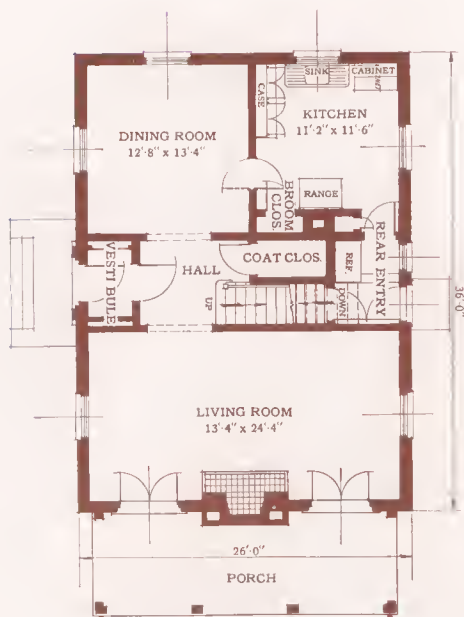


FRONT ELEVATION

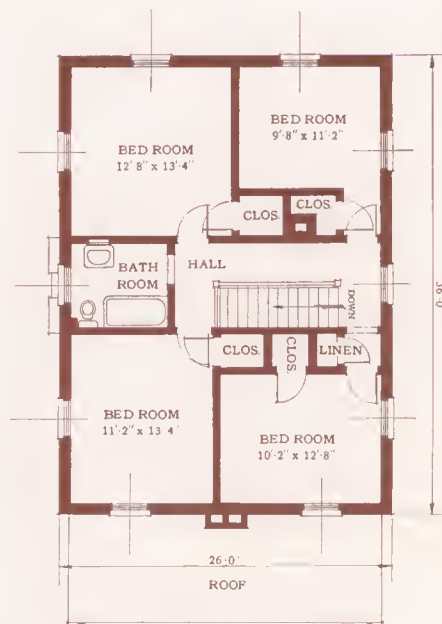


RIGHT SIDE ELEVATION

Seven Room Colonial Type House

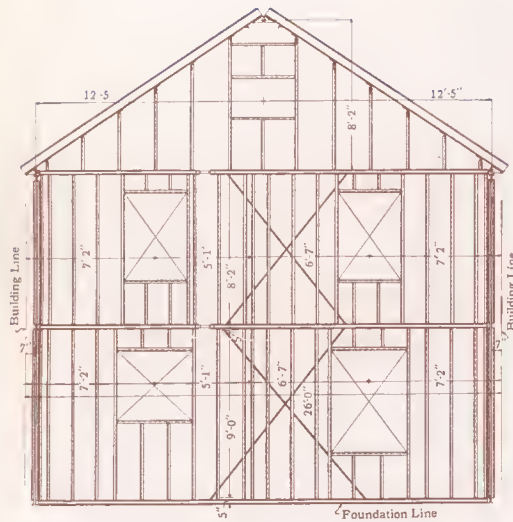


FIRST FLOOR PLAN

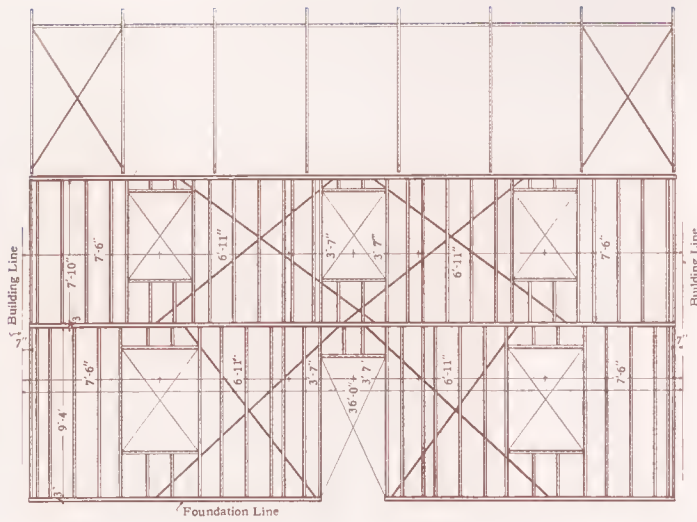


SECOND FLOOR PLAN

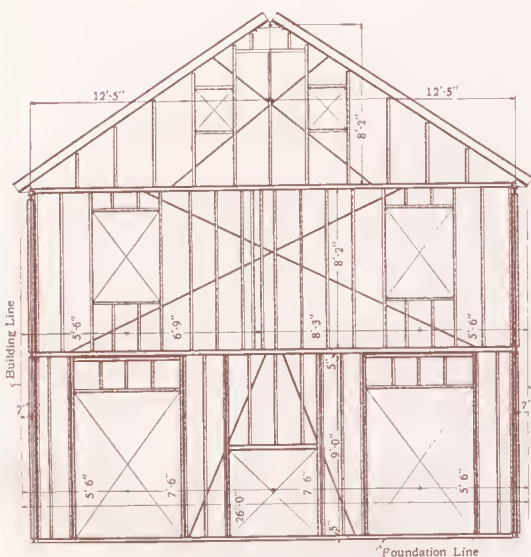
Steel Framing Detail For Seven Room Dwelling



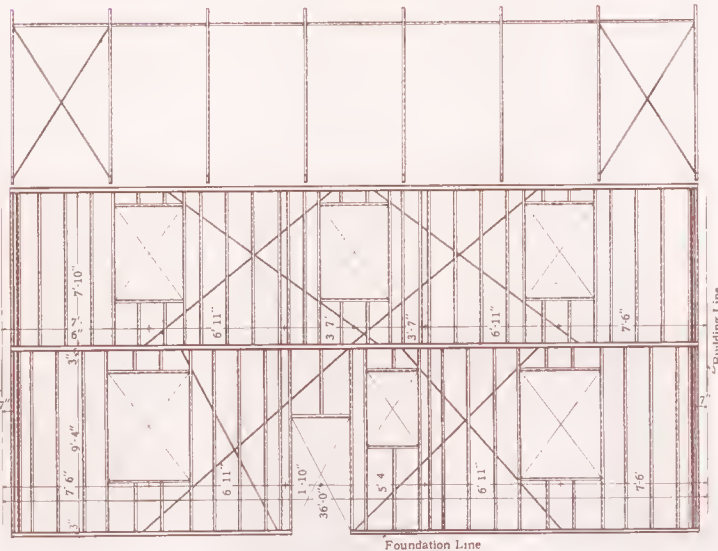
LEFT SIDE ELEVATION



FRONT ELEVATION

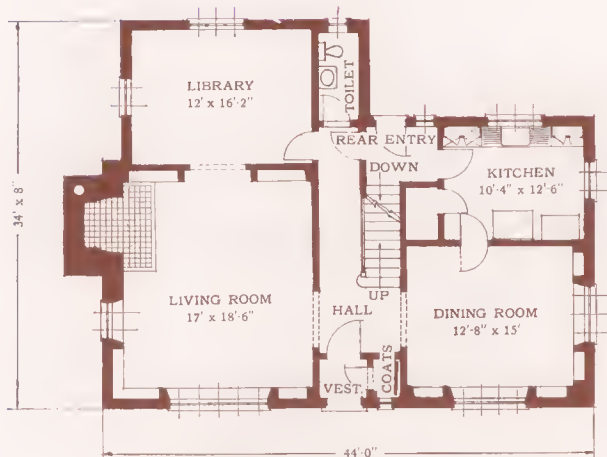


RIGHT SIDE ELEVATION

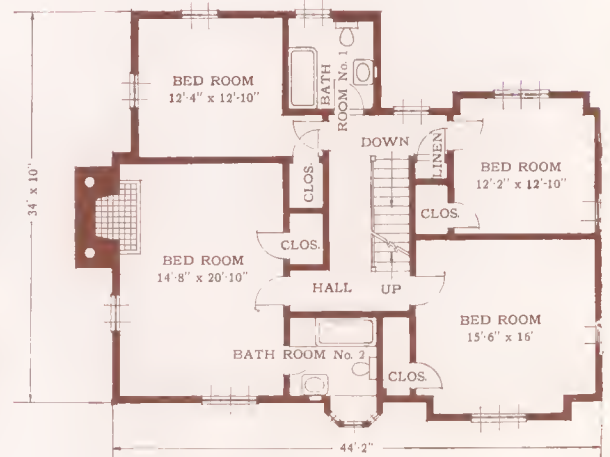


REAR ELEVATION

Eight Room English Type Home



FIRST FLOOR PLAN

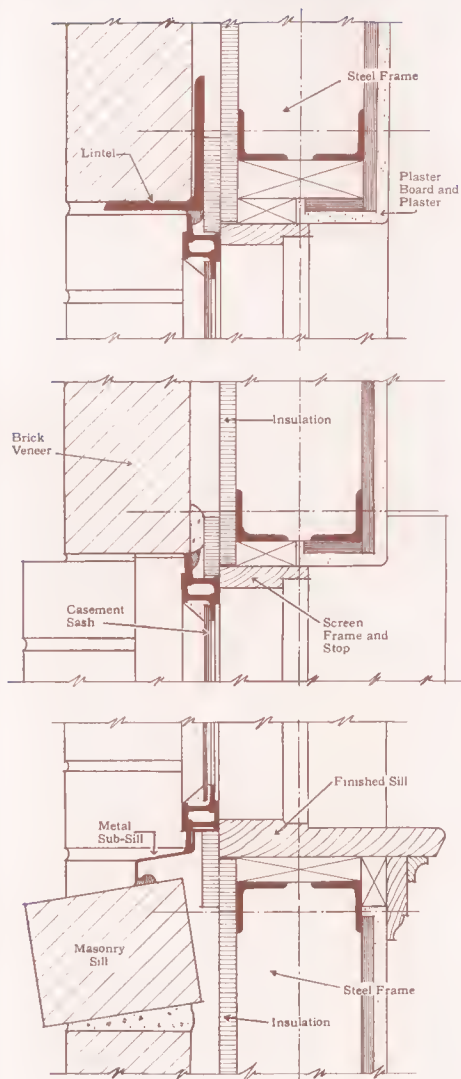


SECOND FLOOR PLAN

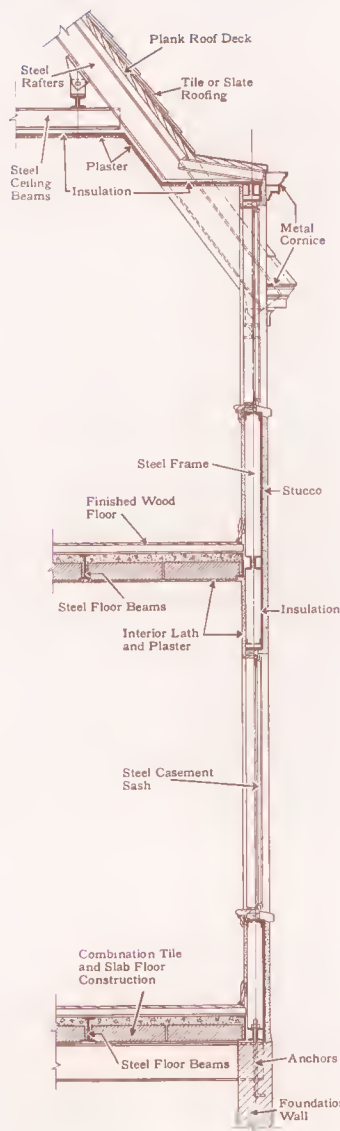
This architectural drawing shows a cross-section of a building elevation. The drawing includes various dimensions for height and width, as well as labels for structural components. The left side is labeled 'Building Line' and the right side is labeled 'Building Line'. The bottom is labeled 'Foundation Line'. The drawing shows a central section with a gable roof and a smaller section to the right with a gable roof. Dimensions are given in feet and inches, such as 10'-5", 5'-3", 5'-4", 5'-1", 4'-0", 5'-4", 7'-9", 9'-5", 10'-4", 8'-9", 9'-6", 2'-5", 2'-5", 4'-0", 1'-1", 1'-11", 7'-9", and 9'-4". The drawing also shows structural elements like gables, windows, and a foundation line.

REAR ELEVATION

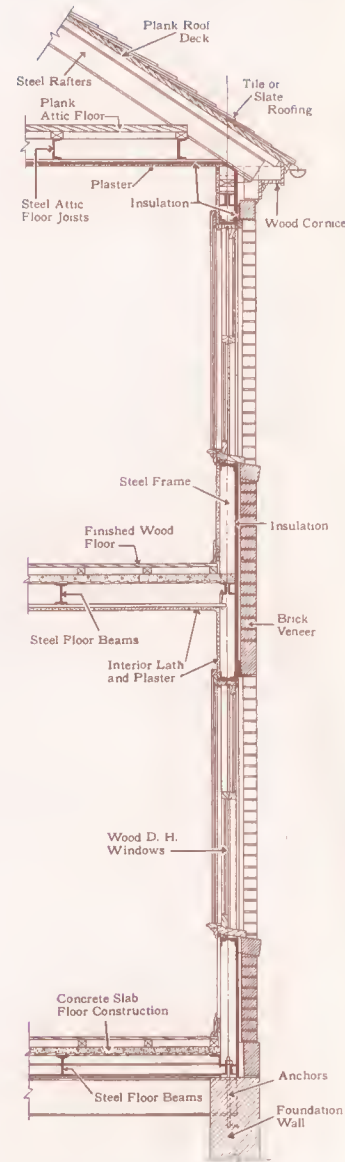
Detail of Steel Casements in Brick Veneer Exterior



Wall Section of Stucco Exterior

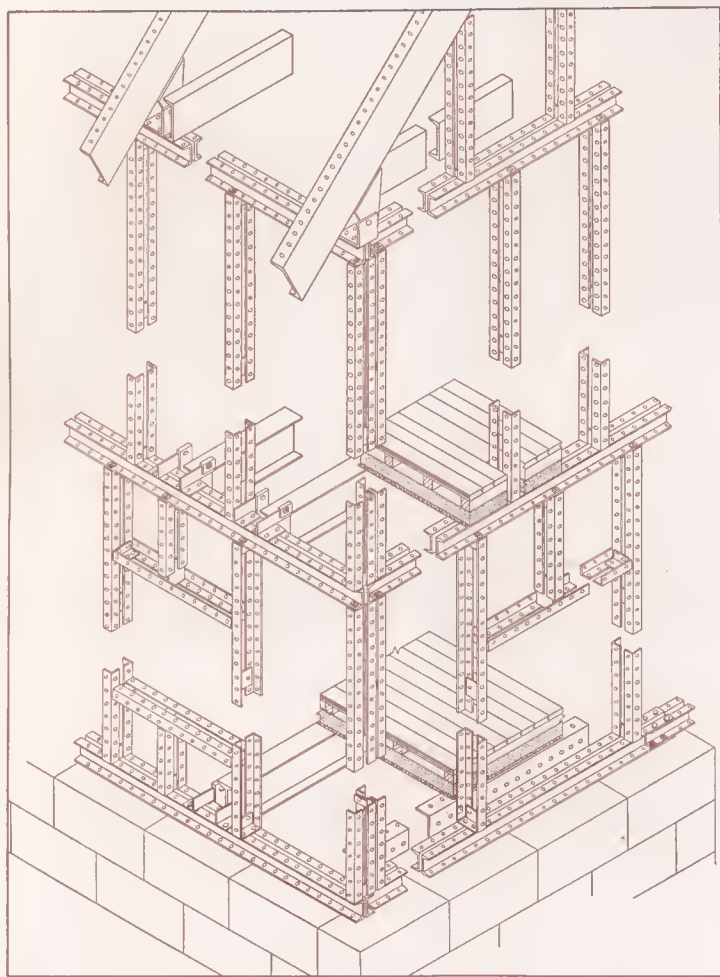


Wall Section of Brick Veneer Wall



THE ABOVE ILLUSTRATIONS SHOW SOME OF THE COMBINATIONS OF MATERIALS WITH "STEEL FRAMING". PRACTICALLY ALL OF THE BUILDING MATERIALS ON THE MARKET ARE ADAPTABLE TO "STEEL FRAMING".

Illustrating the Method of Assembling "Steel Framing" Units



STEEL DOUBLE HUNG WINDOW WITH
EITHER BRICK OR STUCCO EXTERIOR

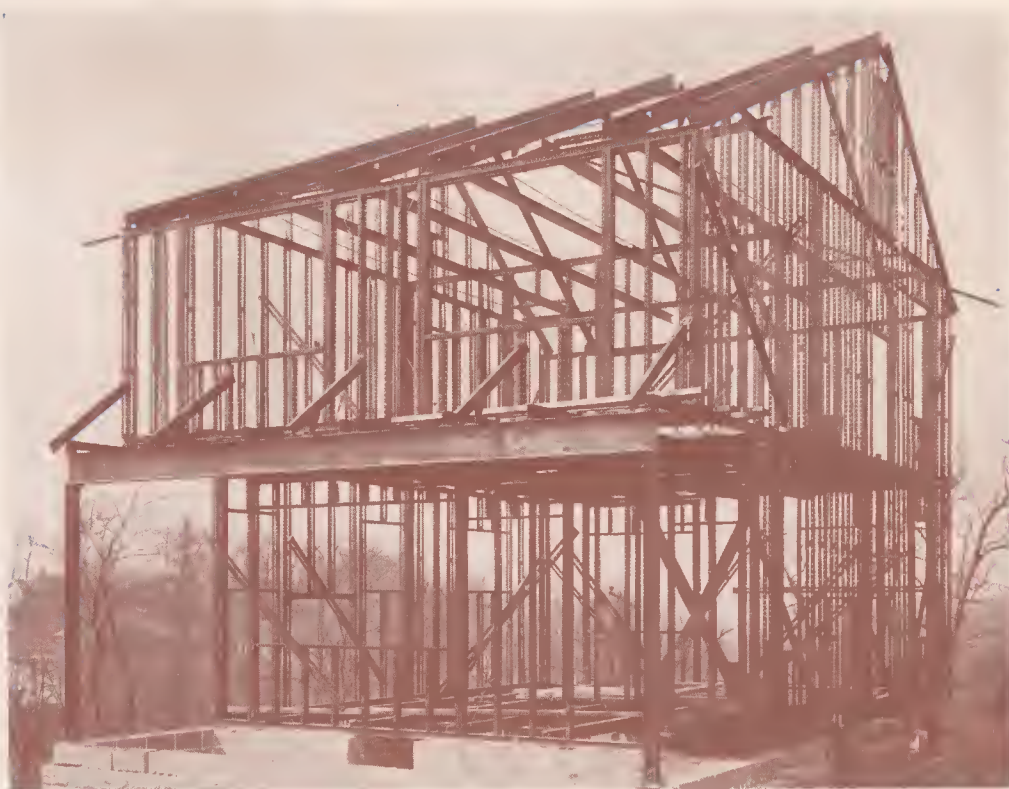


STEEL CASEMENT WINDOW WITH
BRICK SILL AND STUCCO WALL

This Company will furnish any additional information about "Steel Framing" and the application of other materials to it which may be required and quote prices F. O. B. cars or erected complete. Plans submitted for estimate need not be designed especially for "Steel Framing". All that is necessary is a complete set of the architectural plans for the building.

Address requests for information or estimates to

STEEL FRAME HOUSE COMPANY
Oliver Building • Pittsburgh, Pa.



A SIX ROOM DWELLING BEING CONSTRUCTED WITH "STEEL FRAMING".
THE ARCHITECT'S PERSPECTIVE DRAWING OF THIS HOUSE
IS SHOWN ON PAGE EIGHT OF THIS BOOKLET



THE "STEEL FRAMING" UNITS USED IN THE FRAMING OF THE HOUSE SHOWN ABOVE

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